

LISTING OF THE CLAIMS

1. (Currently Amended) A method for producing a plant characterized by reversible male-sterility comprising transforming a plant cell with a nucleic acid construct containing a polynucleotide encoding a *gai* gene from Arabidopsis, [[a]] an anther-specific regulatory sequence, and transcription termination sequence and regenerating a plant from said plant cell wherein expression of said *gai* gene inhibits pollen formation in said plant.

2-4. Canceled

5. (Currently Amended) A method for producing a plant characterized by reversible male-sterility comprising transforming a plant cell with a nucleic acid construct containing a polynucleotide encoding a *gai* gene from Arabidopsis, [[a]] an anther-specific regulatory sequence, and transcription termination sequence; regenerating a plant from said plant cell wherein expression of said *gai* gene inhibits pollen formation in said plant; and restoring male-fertility by application of a composition comprising ~~cytokinin~~ kinetin.

6. (Previously Presented) The method of claim 5, wherein said composition further comprises a surfactant.

7. Cancelled

8. (Currently Amended) The method of claim [[7]] 5, wherein kinetin is applied at between about 1 mg/plant to about 50 mg/plant.

9. (Currently Amended) The method of claim [[7]] 5, wherein kinetin is applied at between about 10 mg/plant to about 15 mg/plant.

10. (Previously Presented) The method of claim 5, wherein said composition is applied prior to development of the male tissues.

11. (Previously Presented) The method of claim 5, wherein said composition is applied during the development of male tissues.

12-19. Cancelled

20. (Currently Amended) A method for producing a plant characterized by reversible male-sterility comprising transforming a plant cell with a nucleic acid construct containing a polynucleotide encoding a *gai* gene from Arabidopsis, [[a]] an anther-specific regulatory sequence, and transcription termination sequence; regenerating a plant from said plant cell wherein expression of said *gai* gene inhibits pollen formation in said plant; and selfing said plant to produce a plant homozygous for said polynucleotide encoding a *gai* gene.

21. (Currently Amended) A seed from a plant produced by the method of any one of the preceding claims.

22. (Currently Amended) A uniform population of plants produced by the method of any one of claims 1, 5, 6, 8-11 or 20 [[1-20]].

23. (Currently Amended) A method of producing a hybrid plant comprising sexually crossing a plant produced by the method of any one of claims 1, 5, 6, 8-11, or 20-22 [[1-22]] with a plant of the same species having a different genetic makeup.

24. (Previously Presented) A hybrid plant produced by the method of claim 23.

25. (Previously Presented) A seed produced from the plant of claim 23.

26. Cancelled

27. (Previously Presented) The method of claim 1, wherein said *gai* gene is an anther-expressed *gai* gene.

28. (Previously Presented) The method of claim 1, wherein said male-sterility is reversible.

29. (Currently Amended) The method of claim 28, wherein said reversibly male-sterile plant is produced by the method of any one of claims 1, 5, 6, 8-11 or 20 [[1-20]].

30-34 Cancelled

35. (Currently Amended) A transgenic corn plant ~~comprising~~ expressing the Arabidopsis *gai* gene in the anther tissue of said plant, wherein the female reproductive tissues of said corn plant are functional, but the male reproductive tissues are not-functional, relative to the corresponding tissues in a corn plant that does not express the *gai* gene in the anther tissue.